Dec 21 2005 11:47

Patent Attorney's Docket No. 000600-016

REMARKS/ARGUMENTS

Applicants wish to thank Examiners Carrillo and Barr for the telephone interviews of December 13, 2005. The purpose of the interviews was to request that the finality of the outstanding Office Action be withdrawn. In support thereof, applicants' representative noted that the amendments filed September 26, 2005, merely added a recitation that the pH of the solution is below 7. He further noted that this recitation did not alter the scope of the claims because the claims *inherently* require the pH to be below 7 due to the *previously presented* recitation of an acid. An acid cannot be present in a basic solution because it will be instantly neutralized to form the corresponding acid salt.

Examiner Barr requested evidence that it is not possible to have an acid in a basic solution. Submitted herewith is an excerpt from "The Condensed Chemical Dictionary" confirming this principle of chemistry. Under the heading "neutralization," it states:

An aqueous solution containing an excess of hydronium ions is called acidic....An aqueous solution containing an excess of hydroxyl ions is called basic....No aqueous solution can contain an excess of both hydronium and hydroxyl ions, because when these ions collide, a proton is immediately transferred from the hydronium to the hydroxyl ion, and both become water molecules.

This excerpt confirms that the presence of an acid in a solution, as claimed by applicants, inherently requires the pH to be below 7, i.e., it inherently requires the solution to be acidic. If the solution were basic, i.e., if it had a pH above 7, then any acid initially present would be instantly neutralized to the acid salt.

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In view of this, the finality of the December 12, 2005 Office Action was improper, as new art was cited and applied even though applicants did not alter the scope of the claims. Stated differently, the amendments to the claims did *not* necessitate a new ground of rejection.

Applicants therefore respectfully request that the finality of the Office Action be withdrawn.

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Date: December 21, 2005

Respectfully submitted,

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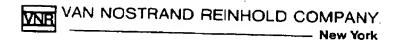
The

Condensed Chemical Dictionary

TENTH EDITION

Revised by

GESSNER G. HAWLEY



White, Redway & Brown LLP 703-299-0036

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animals and man. Atropine sulfate is used in the treatment of nerve gas poisoning. The principal German nerve gases were sarin, soman, tabun (q.v.). Many modern pesticides have the same general structure. See also insecticide; parathion.

"Nesol." Trademark for a commercial dipentene consisting essentially of monocyclic terpene hydrocarbons.

Nessier's reagent. Solution of mercuric iodide in potassium iodide, used in detecting the presence of ammonia, particularly in very small amounts. Hazard: Highly toxic.

"Neto." Trademark for a dual acid-enzyme converted product with a dextrose equivalent of approximately 42. Has a maltose content three times that of an acid-converted corn syrup of the same degree of conversion. Used in confections.

Neuberg blue. A mixture of copper blue (powdered azunte) and an iron blue (Prussian blue). It can be more easily ground in oil than pure copper blue.

neurine CH₂: CHN(CH₃)₃OH(trimethylvinylammonium hydroxide). A poisonous ptomaine formed during putrefaction by the dehydration of choline. Properties: Syrupy liquid; fishy odor; absorbs carbon dioxide from the air; soluble in water and alcohol. Hazard: Highly toxic. Use: Biochemical research.

neutral. (1) Of particles, without electric charge. See neutron; atom.

(2) Of solutions, neither acidic nor basic. See pH.

neutralization. A chemical reaction in which water is formed by mutual destruction of the ions that characterize acids and bases when both are present in an aqueous solution, i.e., H' + OH ---- H2O, the remaining product being a salt, R. T. Sanderson states: "An aqueous solution containing an excess of hydronium ions is called acidic. It readily releases protons to electron-donating substances. aqueous solution containing an excess of hydroxyl ions is called basic. It readily accepts protons from substances that can release them, and is in general an excellent donor. . . No aqueous solution can contain an excess of both hydronium and hydroxyl ions, because when these ions collide, a proton is immediately transferred from the hydronium to the hydroxyl ion, and both become water molecules."

Neutralization occurs with both (a) inorganic and

(b) organic compounds:

(a) $Ca(OH)_2 + H_2SO_4 \longrightarrow CaSO_4 + 2H_2O$; (b) $HCOOH + NaHCO_3 \longrightarrow HCOONa + CO_2 + H_1O$. It should be noted that neutralization can occur without formation of water, as in the reaction $CaO + CO_2 \longrightarrow CaCO_3$. Neutralization does not mean the attaining of pH 7.0; rather it means the equivalence point for an acid-base reaction. When a strong acid reacts with a weak base, the pH will be below 7.0, and when a strong base reacts with a wesk acid, the pH will be above 7.0.

neutral oil. A lubricating oil of medium or low viscosity obtained by distillation and dewaxing of crude petroleum or its cracking products.

neutral red (toluylene red)

(CH₃)₃NC₆H₃N₂C₆H₂CH₃NH₃· HCl (tricyclic). Amino-7-(dimethylamino)-2-methylphenazine monthydrochloride. C.I. No. 50040.

Properties: Green powder; dissolves in water of alcohol to give red color.

Use: Acid-base indicator in the range pH 6.8-8.0 (min acid, yellow brown in alkali); blological stain.

"Neutrol."217 Trademark for an acid-activated classed as decolorizing adsorbent for vegetable animal fats and oils. See also "Filtrol."

"Neutrolox." Trademark for a high-grade ammonium chloride used in textile finishing plants.

Uses: To neutralize textiles containing caustic some from mercerizing, scouring, or bleaching operations.

neutron. Discovered by Chadwich in 1932, the number of a fundamental particle of matter having mass of 1.009 but no electric charge. It is a consideration to the nucleus of all elements except hydrogous the number of neutrons present being the difference between the mass number and the atomic number the element. Neutrons may be liberated from the nucleus by fission (q.v.) of uranium-235, plutonium, and a few other elements, each nucleus yielding to average of 2.5 neutrons; they can also be produced by bombardment of other elements, e.g. berylling with positively charged particles.

As free neutrons are uncharged they have transfered ous penetrating power as a result of their election neutrality; hence they have a highly damaging of the original to living tissue, requiring the use of shielding (c.f. of all equipment in which they are produced for trons directly emitted from atomic nuclei are term "fast"; it is these that bring about the chain reaction the atomic bomb. In a nuclear power reaction the atomic bomb. In a nuclear power reaction are term to the transfer at neutrons is partially absorbed by the moderate (q.v.), and the neutrons so retarded are called to or thermal. See also electron; proton; fission Uses: Nuclear fission; manufacture of plutonium radioactive isotopes; activation analysis.

neutron activation analysis. See activation analysis

neutron diffraction. See diffraction, neutron."

"Neutronyx." Trademark for a group of notes detergents composed of alkylphenol polygroethers containing ethylene oxide, or of polygroglycol fatty acid esters. "Neutronyx" Schart S-30 are anionics, the ammonium and sodium of a sulfated alkylphenol polyglycol ether. Uses: Detergents; wetting, emulsifying, dispense agents.

Aguiroscents." Itadema dunes designed particularly dors; available in water-directioning apparatus devices. Also available in logm.

Pevinol." Trademark for Doxy resins. Used in adhitional ings, special links and v

Neville-Winter acid (I-napht Tapha-naphtholsulfonic acid;)

CY So.

Properties: Transparent plat

Derivation: From sodium salt hydrolysis of the amino grou Use: Azo dye intermediate, e.g

Meyindene."21 Trademark for trante-indene resins of extren dental compounds, fast-dryin dure inks, aluminum paints prounds.

Revinol."21 Trademark for a wart oil used as a stable plast forms; also used in fly paralluminum pastes, water-proof tubber-resin finishes.

Extension flow. See liquid, No

Trademark for nonfunding bath based on phosphorus

Abbreviation for Nation Association (q.v.).

Symbol for nickel.

Trademark for van His: including aluminum fo settate, potassium acetate, sod Bioctate, zinc acetate and "N betate (q.v.).

thoide."53 Trademark for fung Mixing dimethyl dithiocarbams 040 control.

Mile (nicotinic acid; pyridine-3 H-NCOOH. The antipellagn demany animals for growth a lacin is believed necessary along trithe prevention and cure of period of protein and carbohydrate